

<b>APICAL</b>  INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 04229				SHEET 1 OF 1	
	DWG NO. 647.1600	REV: A	PREPARED BY J. SOTO	DATE: 11/11/2013	EFFECT ON DWG <input type="checkbox"/> INC. <input checked="" type="checkbox"/> UNINC.	
	DWG TITLE: WIPER DEFLECTOR ASSY					
	APPROVED BY:	ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF. NEXT ORDER	
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE	REASON: REVISED F/N 8					ECR: 13-032









8	R	601.2207	8		NUTPLATE RIVET	CCR265SS3-3	
F/N	TC	PART NUMBER	.1602	.1601	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY				
DOCUMENTS EFFECTED:						CHANGE CATEGORY	DER REVIEW REQUIRED
<input type="checkbox"/> MDL <input type="checkbox"/> INSTALL INSTRUCTIONS <input type="checkbox"/> ICA <input type="checkbox"/> FMS <input checked="" type="checkbox"/> BOM						<input type="checkbox"/> MAJOR <input checked="" type="checkbox"/> MINOR	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

NOTES:

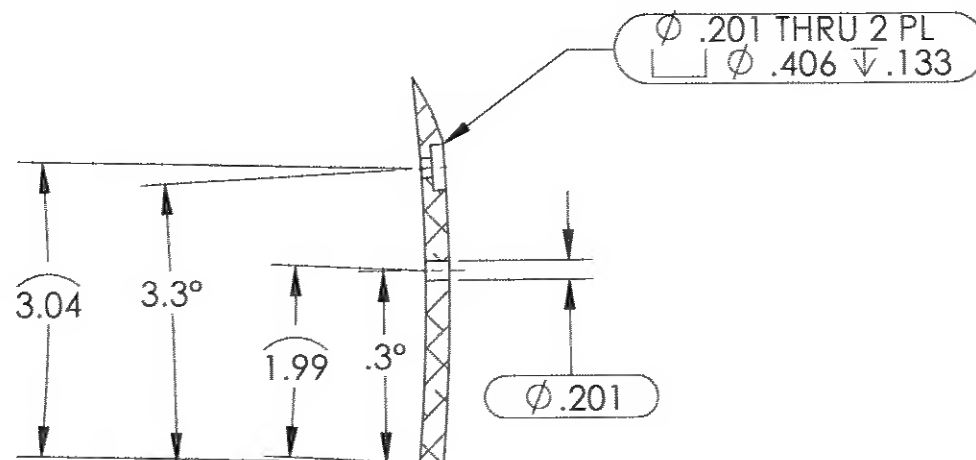
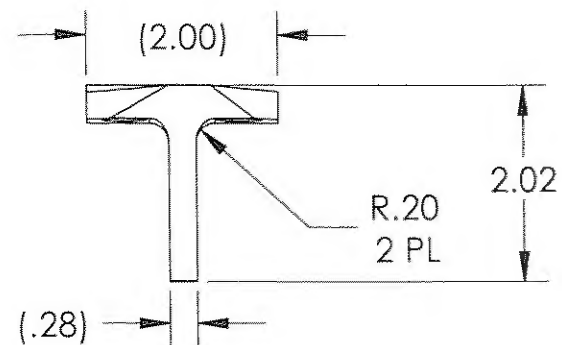
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- This diagram shows an exploded view of a mechanical assembly. The components are labeled with circled numbers and leader lines:
- 2**: The main base plate, which is L-shaped with a circular hole on the left and a small circular feature on the bottom edge.
  - 3**: A small rectangular plate that fits into a slot on the base plate.
  - 4**: A small circular pin or bushing that fits into a hole in the base plate.
  - 5**: A larger rectangular plate that fits onto the top of the base plate.
  - 6**: A small circular pin or bushing that fits into a hole in the larger plate.
  - 7**: A small rectangular plate that fits into a slot on the larger plate.
  - 8**: A small circular pin or bushing that fits into a hole in the larger plate.
  - 9**: A small rectangular plate that fits into a slot on the larger plate.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
	LAST PROTOTYPE REVISION: PR1		N/C
N/C	INITIAL RELEASE	06/10/09	P. BRAVO
A	INCORPORATED ECN 04043	08/09/13	P. BRAVO

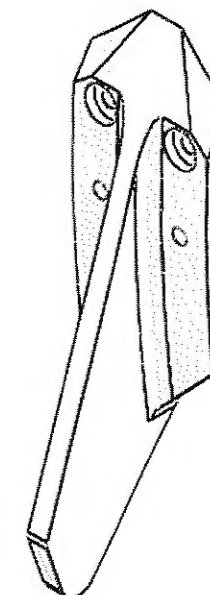
04229

		3	9	601.2989	SCREW	MS27039-0812	
	8		8	601.2980	NUTPLATE RIVET	CCR264SS-3-04	
	4		7	601.1900	NUTPLATE	MS21059-3	
		3	6	601.2973	LOCKNUT	MS21042-08	
		6	5	601.2764	WASHER	NAS1149FN832P	
	1		4	647.1613	DOUBLER		
		2	3	647.1612	SPLICE PLATE		
		1	2	647.1611	WIPER DEFLECTOR, AFT		
			1	647.1610	WIPER DEFLECTOR, FWD		
	X			647.1602	DOUBLER ASSY		
		X		647.1601	WIPER DEFLECTOR ASSY, AFT		
	1602	1601	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.
QTY				PARTS LIST			
NEXT ASSY (S)		ORIGINAL DATE IMD-DA-YR 06-10-09		<b>APICAL INDUSTRIES</b> 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300			
647.1300		DRAWN BY J. GARDINER CHECKER P. BRAVO					
		DRAWING APPROVAL P. BRAVO 06-10-09		<b>WIPER DEFLECTOR ASSY</b>			
		CONTRACT NO.					
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE B CAGE CODES DWG. NO. <b>647.1600</b>		REV. A	
				SCALE NONE		SHEET 1 OF 6	

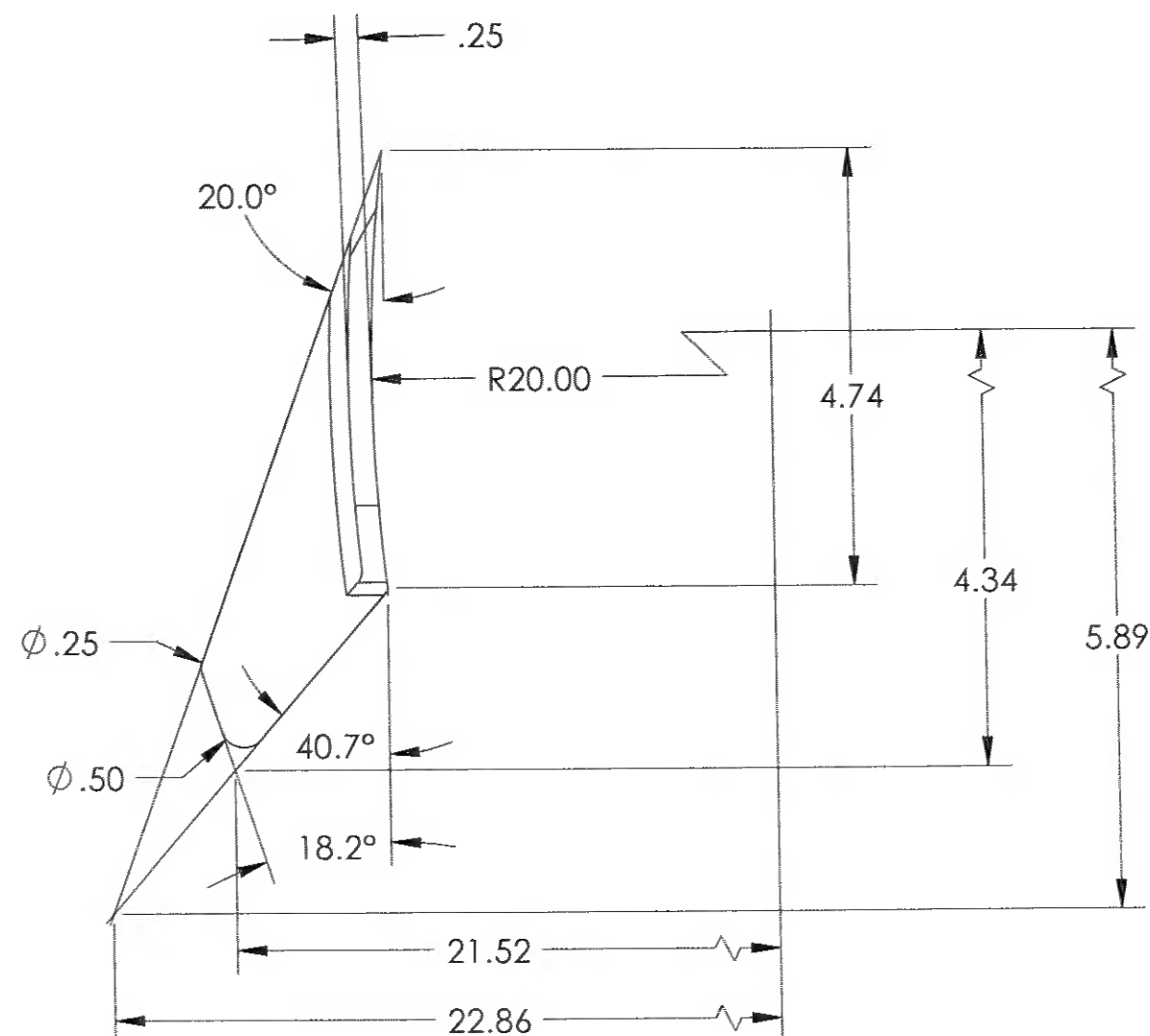
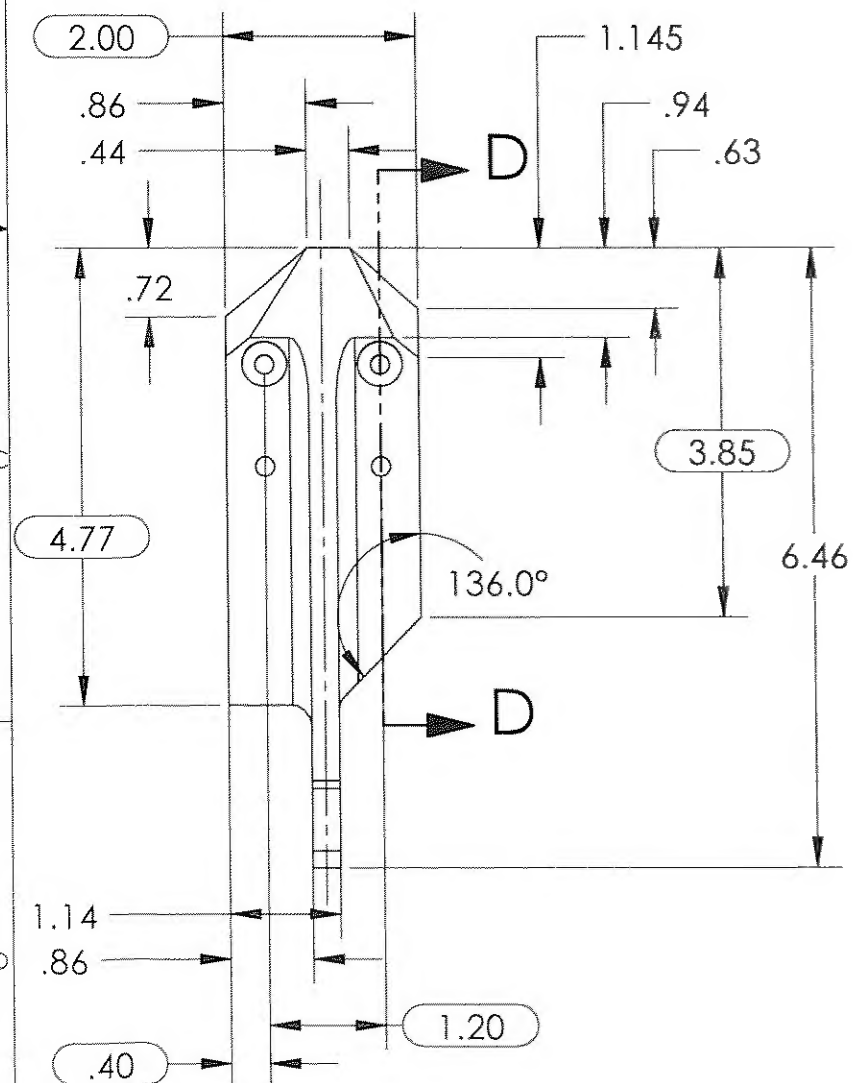
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SECTION D-D

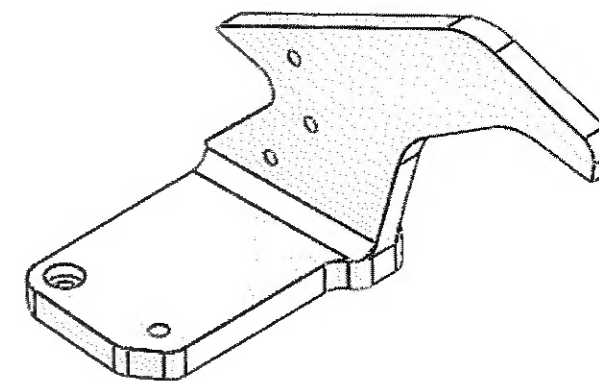
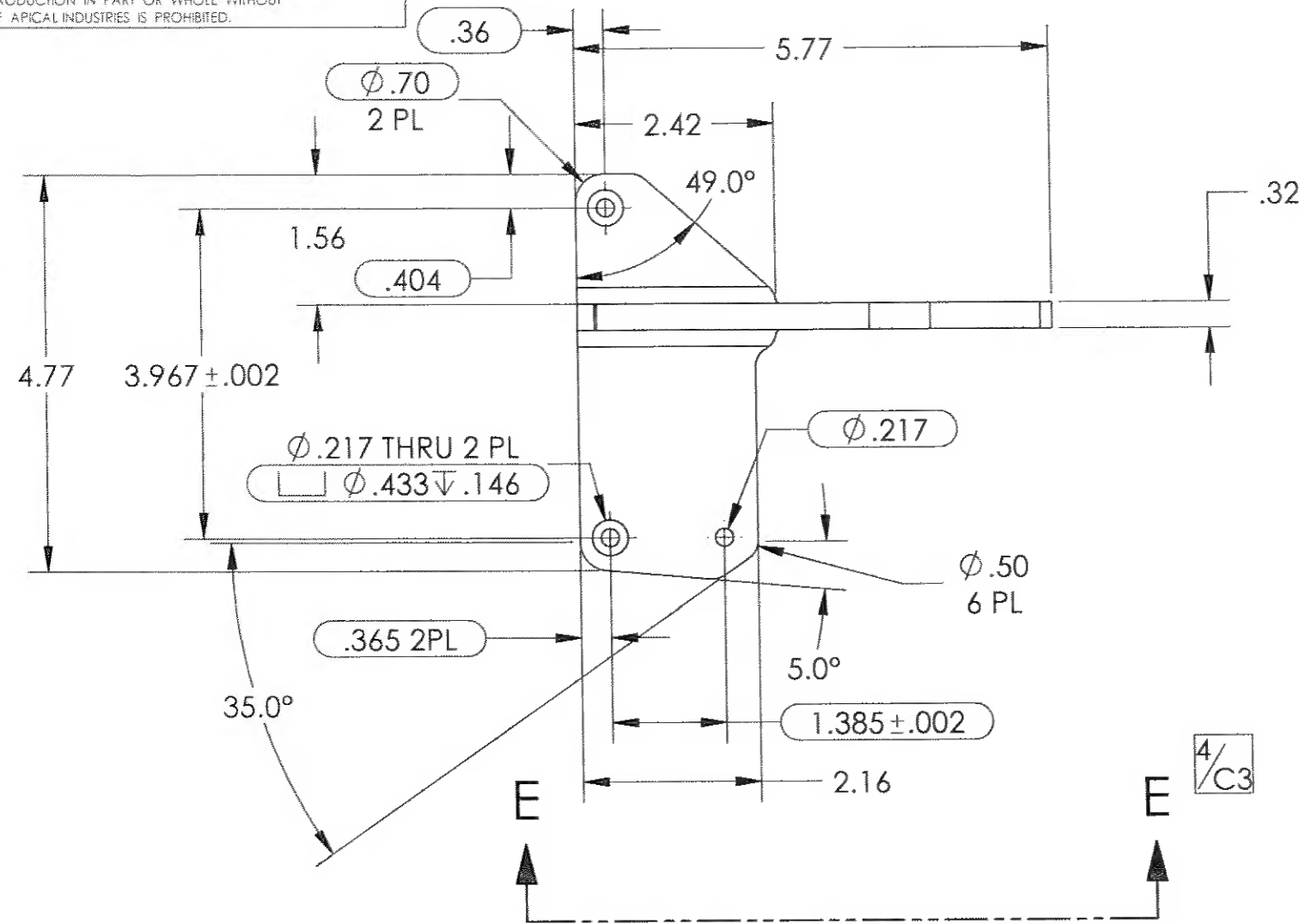


647.1610

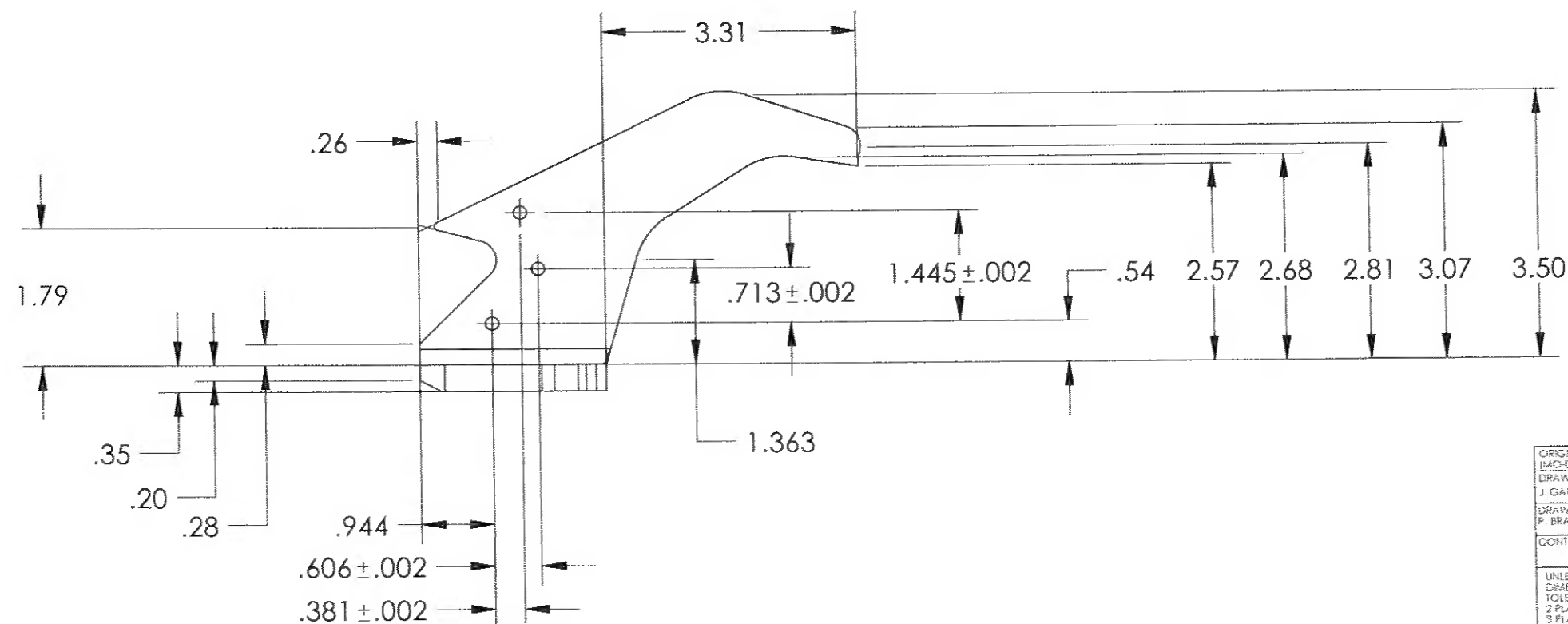


ORIGINAL DATE (MO-DA-YR) 06-10-09		APICAL INDUSTRIES	
DRAWN BY J. GARDNER	CHECKER P. BRAVO	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO		WIPER DEFLECTOR ASSY	
CONTRACT NO.		SIZE B	REV. A
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		CAGE CODE 07MZ6	DWG. NO. 647.1600
		SCALE: NONE	SHEET 2 OF 6

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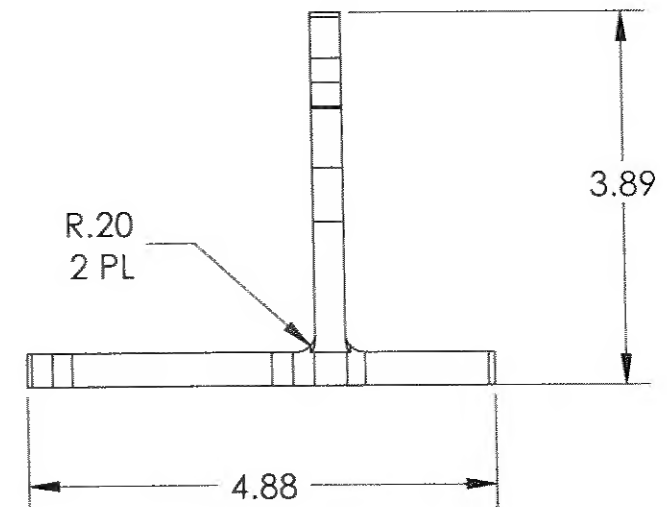
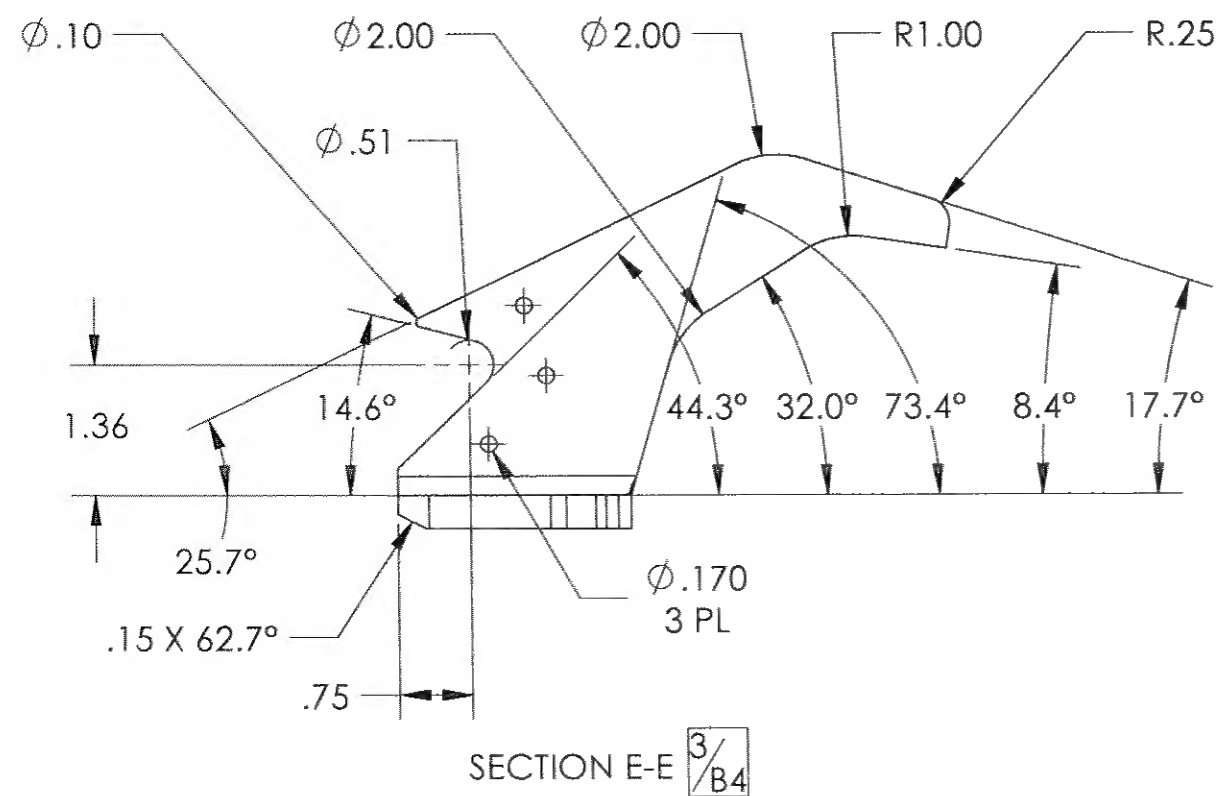
647.1611



ORIGINAL DATE  
IMD-DA-YR 06-10-09  
DRAWN BY  
J. GARDNER  
CHECKER  
P. BRAVO  
DRAWING APPROVAL  
P. BRAVO  
CONTRACT No  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE:  
2 PLACE DECIMALS ± .01  
3 PLACE DECIMALS ± .005  
ANGLES ± 5°

APICAL INDUSTRIES  
2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300  
WIPER DEFLECTOR ASSY  
SIZE B CAGE CODE 07MZ6 DWG. NO. 647.1600 REV. A  
SCALE: NONE SHEET 3 OF 6

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ORIGINAL DATE (MO-DA-YR) 06-10-09		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY J. GARDINER	CHECKER P. BRAVO		
DRAWING APPROVAL P. BRAVO			
CONTRACT NO.		WIPER DEFLECTOR ASSY	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SIZE	REV.
		B 07MZ6	A
		647.1600	
		SCALE: NONE	SHEET 4 OF 6

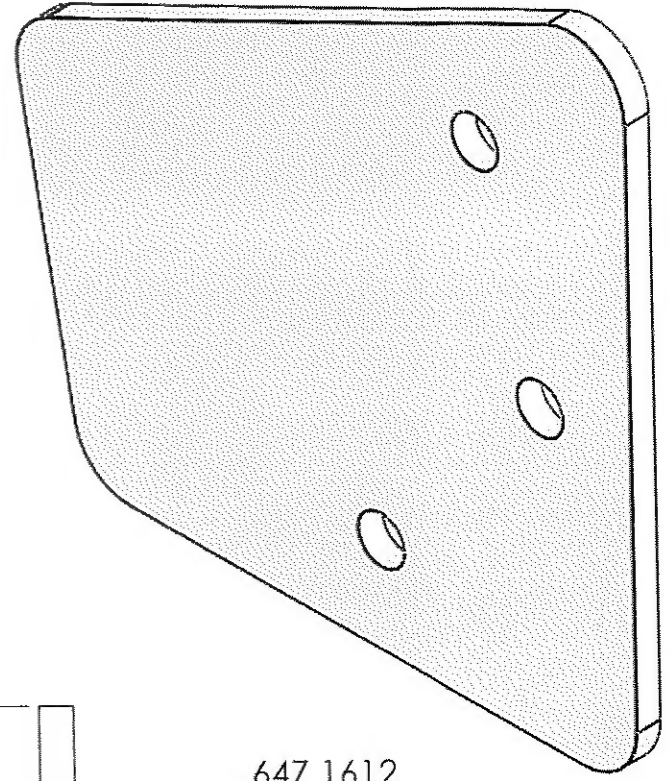
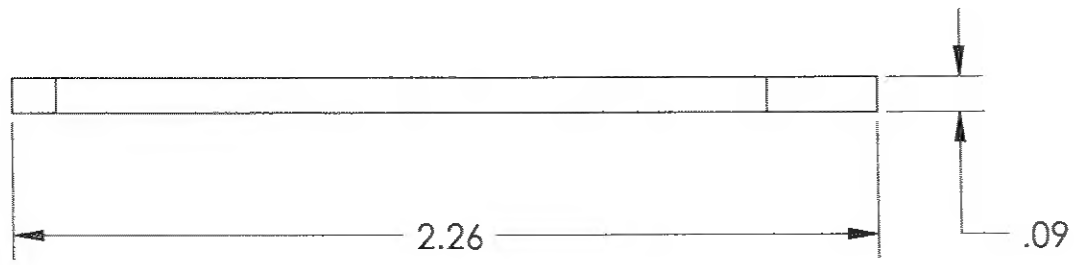
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A

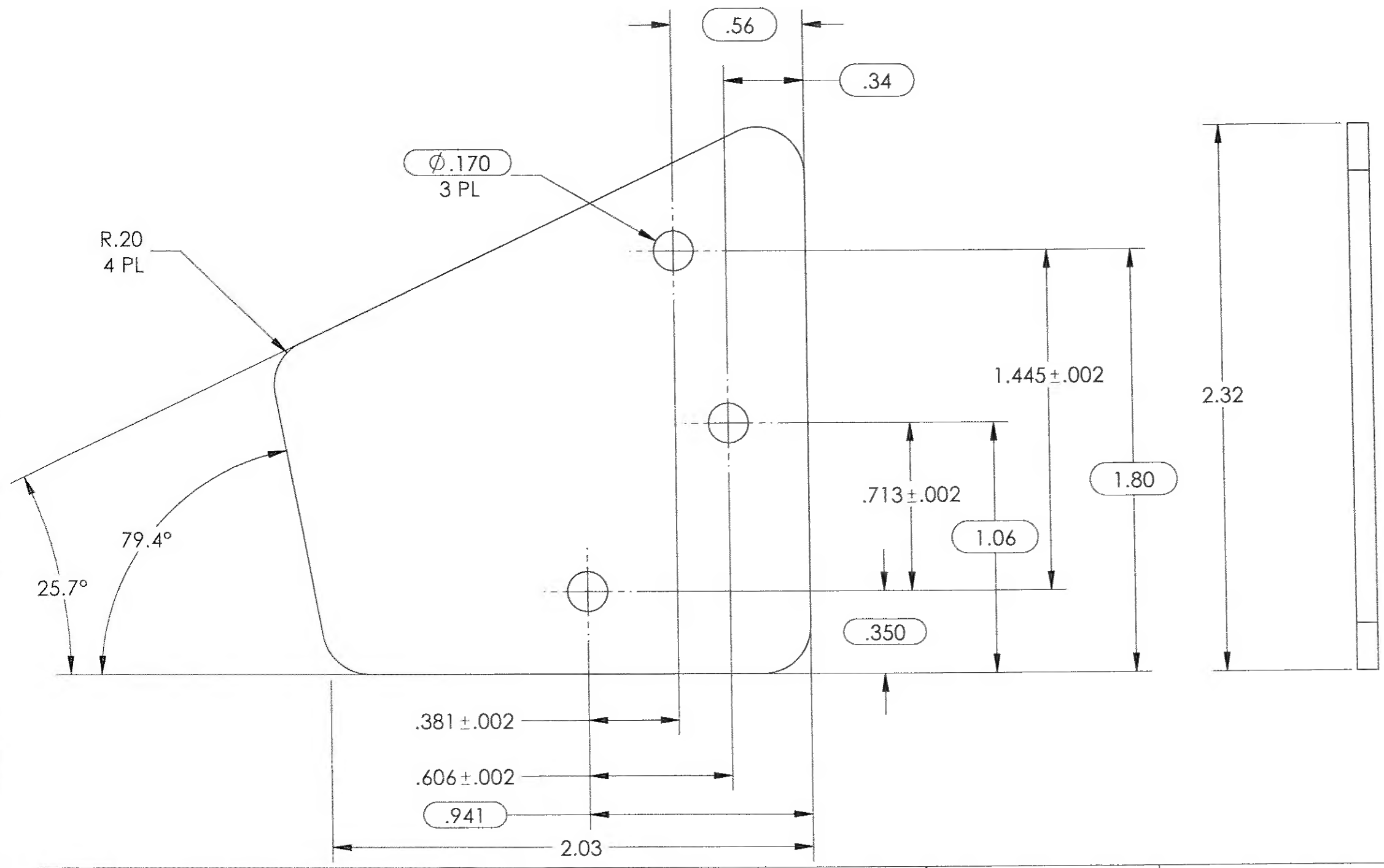
B

C

D



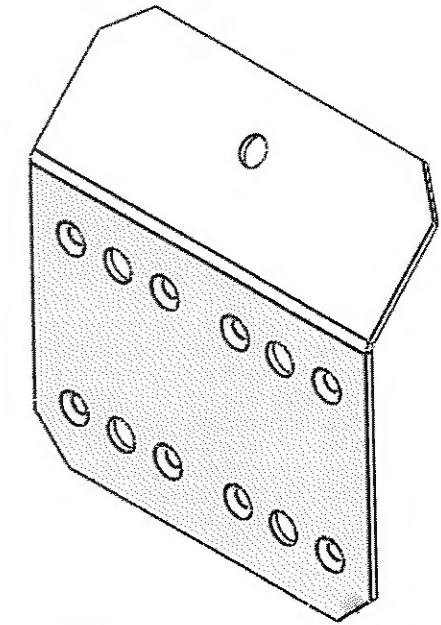
647.1612



ORIGINAL DATE (MM-DD-YY) 06-10-09		APICAL INDUSTRIES	
DRAWN BY J. GARDNER		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300	
CHECKER P. BRAVO		WIPER DEFLECTOR ASSY	
DRAWING APPROVAL P. BRAVO			
CONTRACT No.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°		SIZE B	REV. A
		CAGE CODE 07MZ6	DWG. NO. 647.1600
		SCALE: NONE	
		SHEET 5 OF 6	

Technical drawing of a rectangular plate with the following dimensions and features:

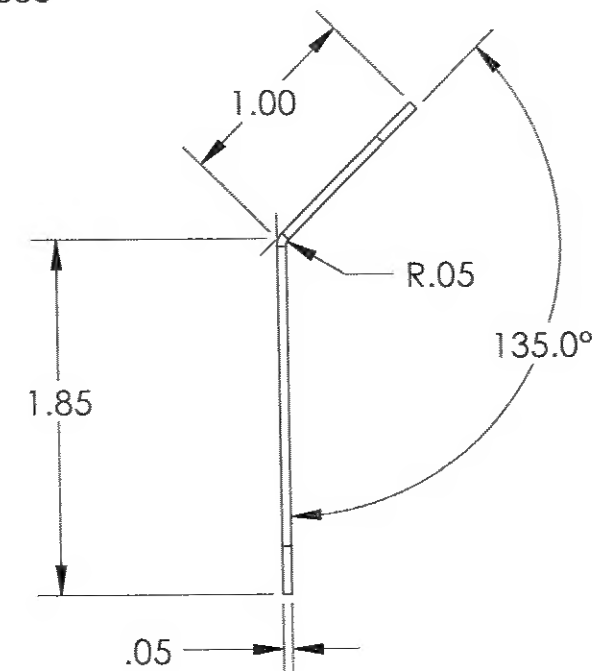
- Overall width: 1.24
- Overall height: 2.83
- Top edge thickness: .40
- Top edge chamfer:  $\phi .18$  THRU
- Internal features: Two rows of three circular holes, each with a central dot.



Technical drawing of a mechanical part, likely a valve body, showing a cross-section with various dimensions and features. The part is symmetrical about a vertical centerline (CL).

Key features and dimensions:

- Top Flange:** Chamfered at  $45.0^\circ$ . Material specification:  $0.104 \text{ THRU } 8 \text{ PL}$  and  $0.199 \times 100^\circ$ .
- Central Hole:** Diameter  $0.196$  inches.
- Bolt Holes:** Two rows of four bolt holes each, spaced  $1.071$  inches apart vertically.
- Bottom Flange:** Thickness  $0.400$  inches. Material specification:  $.25 \times 45.0^\circ \text{ 4 PL}$ .
- Overall Dimensions:**
  - Total width:  $2.48$  inches.
  - Total height:  $1.24$  inches.
  - Central section width:  $0.600$  inches.



ORIGINAL DATE 10/04/15	APICAL INDUSTRIES		
04-10-09	2608 TEMPLE HEIGHTS DR.		
DRAWN BY J. GARDNER	CHECKER P. BRAVO	OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWING APPROVAL P. BRAVO		WIPER DEFLECTOR ASSY	
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ± .5°		SIZE B	CAGE CODE 07M26
		DWG. NO. 647.1600	REV. A
		SCALE: NONE	SHEET 6 OF 6